

ABSTRACT

METHOD AND SYSTEM OF REPRESENTING MUSICAL INFORMATION IN A DIGITAL REPRESENTATION FOR USE IN CONTENT-BASED MULTIMEDIA INFORMATION RETRIEVAL

The invention relates to content-based audio/music retrieval and other content-based multimedia information retrieval. In one aspect the present invention provides a method of representing audio/musical information in a digital representation suitable for use in content-based information indexing and retrieval including the steps of: determining a first representation including a set of peaks and valley corresponding to maximum and minimum values respectively of at least one characteristic of the audio/music, and; determining a second representation including values representing relative differences between peaks and valleys. The invention presents a method and a system for content-based music retrieval. A music score database is constructed to provide a unique representation of real music songs. Score keywords are extracted from the music score as the features of the musing songs.

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